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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 1 February 2016 from the Permanent Mission of the Russian Federation to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Russian Federation to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on space launches by the Russian Federation in November and December 2015 and also on the space objects that ceased to exist during that period (see annexes I and II).

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Annex I

Registration data on space launches by the Russian Federation in November 2015*

1. In November 2015, the following space object under the jurisdiction and control of the Russian Federation was launched:

			Basic orbital characteristics				
Number	*Name of space object*	*Date of launch*	*Apogee (km)*	*Perigee (km)*	*Inclination (degrees)*	*Period*	*General function of space object*
3440-2015-015	Cosmos-2510, launched by a Soyuz-2-1b carrier rocket with a Fregat booster from the Plesetsk launch site	17 November	38 534.5	1 639.6	63.8	11 hours 53 minutes	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation

2. In November 2015, the Russian Federation did not launch any space objects on behalf of foreign clients.

3. As at 2400 hours Moscow time on 30 November 2015, no space objects of the Russian Federation had been found to have ceased to exist in Earth orbit in November 2015.

* The registration data are reproduced in the form in which they were received.

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Annex II

Registration data on space launches by the Russian Federation in December 2015*

1. In December 2015, the following space objects under the jurisdiction and control of the Russian Federation were launched:

Number	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Apogee (km)	*Perigee (km)*	*Inclination (degrees)*	*Period*	
3441-2015-016	Cosmos-2511*	5 December	235	91	98.17	87.6 minutes	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3442-2015-016	Cosmos-2512*	5 December	695	689.7	98.16	98.6 minutes	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3443-2015-017	Elektro-L 2, launched by a Zenit-2SB carrier rocket with a Fregat-SB booster from the Baikonur launch site	11 December	35 826	35 505.6	0.5	23 hours 49 minutes	Hydrometeorological satellite
3444-2015-018	Cosmos-2513, launched by a Proton-M carrier rocket with a Breeze-M booster from the Baikonur launch site	13 December	35 628.1	35 446.5	0.0	23 hours 43 minutes	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3445-2015-019	Soyuz TMA-19M, launched by a Soyuz-FG carrier rocket from the Baikonur launch site	15 December	253.1	200.8	51.6	88.7 minutes	Delivery to the International Space Station of the crew of Expeditions 46 and 47, consisting of Yury Malenchenko (Russian Federation), commander, and flight engineers Timothy Kopra (United States of America) and Timothy Peake (United Kingdom of Great Britain and Northern Ireland)

* The registration data are reproduced in the form in which they were received.

Number	Name of space object	Date of launch	Basic orbital characteristics				General function of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period	
3446-2015-020	Progress MS, launched by a Soyuz-2-1a carrier rocket from the Baikonur launch site	21 December	241.9	192.8	51.6	88.6 minutes	Delivery to the International Space Station of scientific equipment, fuel, water, oxygen, air, food and other expendable materials required for operation of the Station
3447-2015-021	Express-AMU1, launched by a Proton-M carrier rocket with a Breeze-M booster from the Baikonur launch site	25 December	35 783.2	4 321.4	22.3	11 hours 52 minutes	Telecommunications. The satellite was placed in geostationary orbit on 30 December 2015 using its own propulsion system, with the following parameters: apogee: 35,787 km; perigee: 35,780 km; inclination: 0.1 degrees; period: 23 hours 56 minutes

[a] Both satellites launched by a Soyuz-2-1v carrier rocket with a Volga upper stage from the Plesetsk launch site.

2. In December 2015, the Russian Federation did not launch any space objects on behalf of foreign clients.

3. In December 2015, the following space objects were found to have ceased to exist as at 2400 hours Moscow time on 31 December 2015:

2015-071A (Cosmos-2511), which burned up on 8 December 2015;

2015-035A (Soyuz TMA-17M), which landed in a predetermined location with members of an International Space Station expedition on 11 December 2015;

2015-031A (Progress M-28M), which was deorbited into the Pacific Ocean at a predetermined location on 19 December 2015; fragments of the space object that had not burned up were sunk.

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